What is claimed is:

- 1. A system comprising:
- a plurality of electronic devices, each electronic device configured to operate under a different supply voltage;
- a single supply source having multiple voltage taps to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level.
- 2. The system of claim 1, wherein the single supply source is a battery having multiple voltage taps.
- 3. The system of claim 2, wherein the battery includes a common substrate on which a plurality of battery regions are disposed, each battery region providing a supply voltage, the supply voltage of at least one battery region at a rated voltage level different than the other battery regions of the plurality of battery regions.
- 4. The system of claim 3, wherein the common substrate is a rigid platform.
- 5. The system of claim 3, wherein the common substrate is a flexible platform in a folded configuration.
- 6. The system of claim 3, wherein the common substrate is a flexible platform in a rolled configuration.
- 7. The system of claim 3, wherein the system is a hearing aid.
- 8. The system of claim 7, wherein the hearing aid further includes a battery management unit having circuitry to monitor the voltage level of each battery region.

- 9. The system of claim 8, wherein the battery management unit includes circuitry to output an audible notice when the voltage level of a battery region reaches a minimum operational level.
- 10. The system of claim 7, wherein the battery includes three battery regions on a common substrate.
- 11. The system of claim 7, wherein the battery includes a 1.3V tap, a 2.6V tap, and a 3.8V tap.
- 12. The system of claim 7, wherein the hearing aid further includes a battery recharge control.
- 13. The system of claim 12, wherein the battery recharge control includes a switching circuit to independently couple a voltage tap to a recharge circuit.
- 14. The system of claim 12, wherein the battery recharge control includes a number of voltage regulators to limit the voltage recharge to a voltage at or below a selected recharge voltage level.
- 15. The system of claim 7, wherein the hearing aid includes a switching network to selectively switch an electronic device of the plurality of electronic devices to any voltage tap of the multiple voltage taps.
- 16. The system of claim 7, wherein the hearing aid includes:
 - a microphone;
 - a signal processor; and
- an amplifier, wherein each of the microphone, the signal processor, and the amplifier are powered by a different voltage tap of the battery.

- 17. The system of claim 7, wherein the hearing aid further includes one or more regulators, each regulator associated with a different voltage tap of the battery.
- 18. The system of claim 7, wherein the hearing aid further includes a wireless link that operates with a supply voltage greater than 1.3V.
- 19. A battery comprising:
 - a substrate;
- a plurality of battery regions disposed on the substrate, each battery region to provide a different supply voltage;
- a plurality of buffer regions, one or more buffer regions separating each battery region; and
 - a plurality of voltage taps, wherein each battery region has a voltage tap.
- 20. The battery of claim 19, wherein the substrate is a rigid platform.
- 21. The battery of claim 19, wherein the substrate is a flexible platform in a folded configuration.
- 22. The battery of claim 19, wherein the substrate is a flexible platform in a rolled configuration.
- 23. The battery of claim 19, wherein the number of battery regions is three.
- 24. The battery of claim 19, wherein the battery includes a 1.3V supply voltage, a 2.6V supply voltage, and a 3.8V supply voltage.
- 25. The battery of claim 19, further including a reference contact common to each battery region.

- 26. The battery of claim 19, further including a number of reference contacts, each reference contact coupled to a different battery region.
- 27. The battery of claim 19, wherein one or more of the battery regions are rechargeable.
- 28. A method of manufacturing a hearing aid comprising:

 mounting a number of electronic devices into a housing of a hearing aid, each electronic device configured to operate under a different supply voltage; and providing the hearing aid with a single supply source to provide the different supply voltages without up-converting a voltage level or down-converting a voltage level.
- 29. The method of claim 28, wherein providing the hearing aid with a single supply source includes providing the hearing aid with a battery having multiple voltage taps.
- 30. The method of claim 29, wherein providing the hearing aid with a battery having multiple voltage taps includes providing the battery having a common substrate on which a plurality of battery regions are disposed, each battery region providing a supply voltage, the supply voltage of at least one battery region at a rated voltage level different than the other battery region of the plurality of battery regions.
- 31. The method of claim 30, wherein providing a battery having a common substrate includes providing the battery with the common substrate formed as a rigid platform.
- 32. The method of claim 30, wherein providing a battery having a common substrate includes providing the battery with the common substrate formed as a flexible platform in a folded configuration.
- 33. The method of claim 30, wherein providing a battery having a common substrate includes providing the battery with the common substrate formed as a flexible platform in a rolled configuration.

34. The method of claim 29, wherein the method further includes providing a wireless link that operates with a supply voltage greater than 1.3V.